

Identification

Na₂B₄O₇ · 10H₂O
M = 381,37 g/mol
CAS [1303-96-4]
EC number: 215-540-4
Taric code: 2840 19 90

Synonyms

Borax, Sodium biborate decahydrate, Sodium borate decahydrate

Applications

reference material, for calibrating pH-meters, for pharmaceuticals synthesizing.

Specifications

assay (acidimetric).....	99,5 - 105,0 %	sulfates (SO ₄).....	max. 0,005 %
identity.....	passes test	ammonium (NH ₄).....	max. 0,001 %
appearance of solution.....	clear	arsenic (As).....	max. 5 ppm
insoluble in water.....	max. 0,005 %	calcium (Ca).....	max. 0,005 %
pH (0,01 M, H ₂ O).....	9,15 - 9,20	copper (Cu).....	max. 5 ppm
chlorides (Cl).....	max. 0,001 %	heavy metals (as Pb).....	max. 0,001 %
phosphates (as PO ₄).....	max. 0,001 %	iron (Fe).....	max. 5 ppm
		lead (Pb).....	max. 5 ppm

Physical data

- Appearance: crystals, white
- Spec. Density: 1,72 g/cm³
- Bulk density: ~ 750 kg/m³
- Solub. in water: (20 °C): 51,4 g/l
- Melting point: 75 °C
- Boiling point: 1575 °C (anhydrous)
- Vapour pressure: (20 °C) 0,213 hPa
- pH(47 g/l H₂O, 20 °C) 9,2

Safety - GHS

Signal Word: Danger

Hazard Statements:

H319: Causes serious eye irritation.
H360FD: May damage fertility. May damage the unborn child.



Precautionary Statements:

P280: Wear protective gloves / protective clothing / eye protection / face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice / attention.
P337+P313: If eye irritation persists: Get medical advice / attention.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- 10°C - 30°C